



The Lord Garioch 1913.



Ancy

Published at 2 1/2 p. 1 day 1st



THE
NATURAL HISTORY
of
BRITISH INSECTS.

Together with such as require

INVESTIGATION

by the
MICROSCOPE .

ILLUSTRATED

by
COLOURED FIGURES

from
LIVING SPECIMENS .

E. DONOVAN F.L.S.

LONDON .

1792 - 1813 .



1 Chamaeleon Fly
Musca Chamaeleon

2 Pendulous Fly
Musca Pendula

3 Red Sided Fly
Musca Lateralis



Musca Chamaeleon.



Musca Onopordinis ?



Musca Linnæi



1



3



2

1 *Musca Aurata* ●
2.3 " *Semi-Argentata* ●



1 Cylindrical Fly
Musca Brassicaria

3 Speckled Wing Stinging Fly
Tabanus pluvialis

2 Small Long Horned Bee
Apis tumulorum

4 *Musca Bombylans*

5 Trilineated Fly. *Musca Trilineata*



Musca Solitica



- 1 *Musca Grossa*. Great Black Fly.
- 2 " *Bicincta* Double Belled "
- 3 " *Vibrans* Vibratory "
- 4 " *Noctiluca*
- 5 " *Scybalaria*



Striped Wing Musca •
Musca Pulchella



Rainey 5 Spot Musca
Musca pluvialis



1 *Musca pyrastris* ♀

2 " *Caemeteriorum*

3 " *Ribesii* Red Currant Louse Fly



1

Musca Grossificationis •



1. *Musca Rotundata* ●
 2 " *Arcuata* ●



Musca hemipterus



1.1 *Musca Maculata* Spotted Fly
 2.2 " *Sericea* Silky Musca



Yellow Girdled Musca •
Musca Cingulata



1 *Musca Mystacea*
2 " *Meridiana*



1 *Musca Inanis*
2 " *Hirsuta*



Musca Hottentotta



Musca Mortuorum ●



Musca Festiva



1. 2 Musca Uliginosa
1. 1 Males. 2. 2 Females



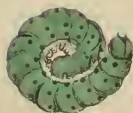
Atherixine Musca
Musca Atherix



Rufous Thorax Musca
Musca Ephippium



Musca Tenax •



Yellow Saw Fly
Tenthredo lutea



Banded Sawfly.
Tenthredo fasciata



Silky Sawfly
Tenthredo Sericea



Bimaculated Sawfly
Sirex bimaculatus



1.1 Collared Sawfly *Tenthredo Collaris*
 2 Broad Yellow banded *Tenthredo* " *Succincta*



Green Saw fly.
Tenthredo viridis



Dromedary Sawfly
Sirex dromedarius



Common Ephemerid or May Fly
Ephemerid Vulgata



Tabanus Caccutiens
 1 Nat. Size. 2 Head Mag.



Tenthredo Rosae.



European Mutilla
Mutilla Europaea



Tipula Pomonae.



Larra Pompiliformis



Sheep Bot Fly: Gadfly or Breeze Fly
Cestrus Cris



Black Tabanus
Tabanus Niger.



Humble Bee Fly.
Bombylius Major



1

3



2

1. *Bombylius Medius*
2. *Muscra thypoleon*



Small Humble Bee Fly
Bombylius minor



1 *Ichneumon Ramodulus*
 2 " *Raptorius*
 3 & 4 - "



1 *Sphex Sabulosa*
 2 *Sphex circumflexus*



Small Bodied Ichneumon Wasp
Sphex Appendigaster



1.1 *Ichneumon Leucorhæus* White tailed *Ichneumon*
 2.2 " *Costator* Yellow margined "



Ichneumon Bilineator. Bilineated Ichneumon



Ichneumon Persuasorius



Banchus Pictus



Petiolated Conops.
Conops Petiolata



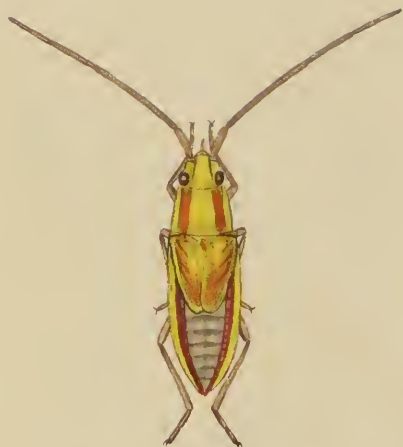
Spheca spirifera



Cimex Luridus



1. 2. 3. Cimex quadripunctatus
4. " Protervus
5. 6. " Pallescens



Larva (magnified)
Cimex pallidus



1 *Cimex Lacustris*
 2 " *Acuminatus*



Cimex Prasinus



1



3



1



2

Cimex Spissicornis



2

1st Black Knee Field Bug
Leinax gonymelas
 2 "*haemorrhoidalis*



|

1

Cimex Flavomarginatus



1.1 *Cimex Vittatus*
2.2 " *Populi*



Black & White Field Bug
Cimex bicolor



Fawn Coloured Clover Bug
Cinera Venator



Cimex Melanocephalus



Black lined Elder Bug
Cimex Nigro-Lineatus



Common Boatfly
Notonecta glauca



5



2

Straited Boat Fly
Neelonecta Straita



2



1	<i>Notonecta</i>	<i>Maculata</i>	Spotted Boat Fly
2	"	<i>Furcata</i>	Furcate " "



Flat Bodied Dragon Fly (male)
Libellula depressa



Flat Bodied Dragon Fly. (female)
Libellula depressa



Larva
Libellula Depressa



1 *Libellula Virgo* var.
2 " *Puella*. " *Red*



Largest Dragonfly
Libellula grandis



Caught flies
and a beetle !!
and ate them
on my hand,
in Spring Forest.
6. 10. 1917.

9.

1 *Libellula Vulgata* Common Dragon Fly.
2 " *Grandis*.



Four Spot Dragonfly
Libellula Quadri-maculata



Brassy Green Dragonfly
Sibellula Aenea



Forcipated Dragonfly
Libellula Forcipata



Libellula Quadrifasciata



Belton's Dragonfly
Libellula Boltonii



Bimaculated Dragonfly
Libellula biguttata



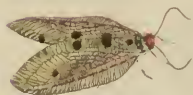
Cancellated Dragonfly
Libellula cancellata



Scotch Dragonfly
Libellula Scotica



1 *Hemerobius hirtus*
2 Wing Magnified



Hemerobius Chrysops



Spring Fly •
Phryganea Rhombica



1. 1 Mountain Spring Fly
Phryganea Montana
 2. 2 " *Maculata*
 Spotted Spring Fly

2



1

1 *Phryganea Varia*?

2 *Hemerobius Picta*

Golden Eye

29-8



Broken Bar *Phryganea*
Phryganea Interrupta



Panorpa Communis.



European Lantern Carrier
Fulgora Europaea



Raphidia Ophiopsis



Thick Legged Chalcis
Chalcis clavipes



- 1 *Cicada Sanguinolenta* • 2 *Cicada Spumaria*
 Black Cuckoo Spit Insect
 or Froth Worm •
 3 *Cicada Viridis* •



3



2

Horned Cicada
Cicada Cornuta

N^o 1 Natural Size. 2 do Standing. 3 Head Magnified



2

1. 1

2

Cicada Nitidula
" *Flavostriata*



1. 1 *Hippobosca Equina*. Horse or Spider Fly
 2 " *Avicularia*



1 *Hippobosca Hirundinis*
2 " *Ovina*



Plumose Gnat.
Tipula Plumosa



1 *Tipula Crocata* ●
2 " *Rivosa* ●



1



2



1 Humble Bee
Apis Terrestris

2 Red Tailed Bee
Apis Lapidaria

3 *Fithredo Vitellina*



2



1

- 1 Large Red tail Bee.
Apis Lapidaria
 2 Black Bee.
Apis Acervorum



Carpenter Bee
Apis centuncularis



- | | | | |
|----|--------------|--------------------------------|------------------|
| 1. | <i>Vespa</i> | <i>Decim-Maculata</i> | 10 Spotted Wasp |
| 2 | <i>Apis</i> | <i>Sphacoides</i> | Sphex formed Bee |
| 3 | " | <i>Geoffrella</i> | Geoffroy's Bee |
| 4 | " | <i>Punctata</i> (var. min. p.) | Dotted " |
| 5 | " | <i>Floralis</i> | Floral " |



1. 1 Red Tailed Bee
 2 Yellow bodied Moss "
 3 Barbuto "

Apis Lapidaria
 " *Muscorum*
 " *Barbutella*



1 *Apis Druriella*
 2:2 " *Variegata*

Drury's Bee
Variegated "



1



2



2

†

1 *Apis Tricolor*
 2. 2 " *Banksiana*

Tricolor-Bee
Banksian " ♦



1.1 *Apis Cornigera*
 2.2 " *Jacobaeae*

2



1



1

1 *Apis fucipes*
 2 " *Lisjuncta*



1. *Apis Signata*
 2 " *Laevigata*
 3 " *Chroostoma*



1



Plume Legged Bee
Apis Pennipes



5 Spot Bee (Wasps?)
Apis quinquevittata



Thick Legged Bee
Apis Lagopoda. Var



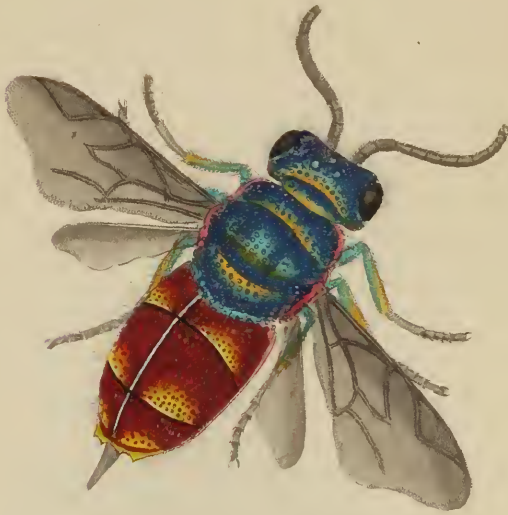
Apis mellifica



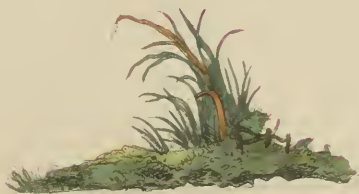
Manicated Bee
Apis Manicata



Common Bee
Apis Mellifica
 1. 2 Male Female = 3 Neuter



Common Golden Wasp • *Chrysis ignita* ^{Gress.} ^{should be} ^{Cuckoo.}



Chrysis Bidentata



Largest tailed Wasp. *Polyneura*
Sirex Gigas 3.



Black Bodied Tailed Wasp.
Liex Spectrum schneuwani



Common Wasp.
Vespa Vulgaris



Chrysis Cyanea



Blue Bodied Tailed Wasp •
Sirex juvencus Schenck.



Vespa Crabrovia

30. 8. 1917



Yellow-bellied Wasp.
Vespa Texcineta



Yellow Legged Philanthus
Philanthus Flavipes



Yellow-Banded Wasp.
Vespa Flavicornis
 Long Winged Sand Wasp
Ammophila Arenaria



Octo-punctated Wasp.
Bembex Octo-punctata



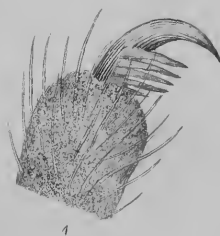
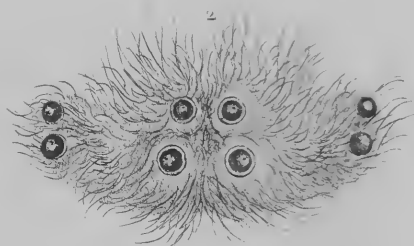
1 Angulate Wasp
Vespa Angulata
 2 Quadrate Wasp - *Vespa Quadrate* •



Hornet.
Vespa Crabro



White Cross Spider •
Aranea Liadema



White Cross Spider
 Fig 1 Head. 2 Fragment ditto. 3 Fore Claws
 4 Claw Magnified



- 1 *Aranea Extensa* . . . Globular Spider
 2 " *Globosa* . . .
 3 " *Cinerea*
 4 *Phalangium Bimaculatum* . Minute Black Spider



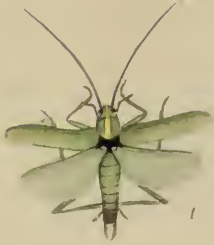
1.1 *Aranea Livida*
2. " *Marginata*



Rufous Ant
Formica Rufa.



Red Ant
Formica Rubra



1 Gryllus Biguttulus 2 Locusta varia



Gryllus Viridissimus •



Yellow Legged Grasshopper
Gryllus Flavipes



Rufous Grasshopper
Gryllus Rufus



Subulate Acrydium •
Acrydium Subulatum

2/0



Migratory Locust
Gryllus migratorius



Madeira Cockroach
Blatta Maderae



2



1

1. 2. *Sepisma Polypoda*



Mole Cricket
Gryllus Gryllotalpa



House Cricket
Gryllus domesticus



Field Cricket
Gryllus campestris



Water Scorpion
Nepa cinerea



2



1

Linear Water Scorpion
Nepa linearis

No 1 Larva. 2 perfect Insect



Gigantic Earwig
Forficula Gigantea
1 Female. 2 Male.



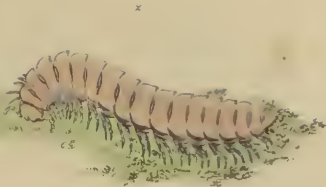
1-4 *Oniscus Asquaticus*



Scolopendria Porficata



Julus Terrestris



Julus Complanatus



Garden Centipede
Scolopendra hortensis



Beetle Tick
Acarus Coleoptratorum



Water Bug
Belostomatidae



Buprestis Pygmaea



Pigeon's Louse
Pediculus Columbae



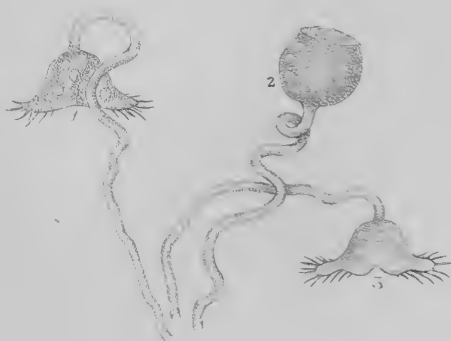
Aiptera
Monoculus Quadricornis



2

3

Aptera
Monoculus Conchaceus



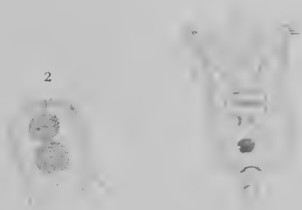
Vorticella Lunaris



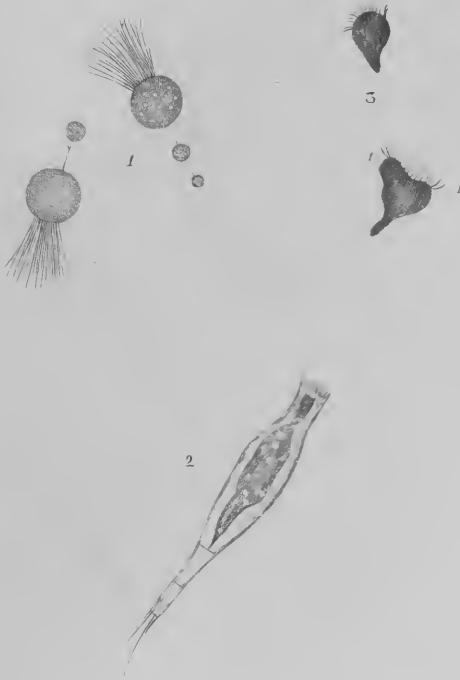
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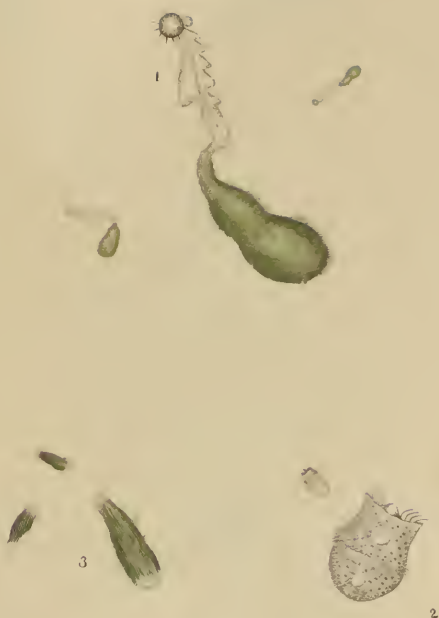
Trichoda
Trichoda Pocillum



1. 2 *Corticella Urceolaris*
 3 *Trichoda Vermicularis*



- 1 *Trichoda Cometa* (Cometa)
 2 " *Longicauda*
 3 *Vorticella Trochiformis Nigra*



- 1 *Trichoda Melitea*
 2 *Vorticella Nasuta*
 3 " *Viridis*



- 1 *Vibrio Oler*
 2 *Kolpoda Mileagris*
 3 & 4 *Proteus Tenax*



Vorticella Polymorpha 3 *Trichoda Lynceus*
 " *Rotatoria* 4 *Kerona Patella*



2



1. *Proteus Diffluens* 2. *Trichoda Bomba*

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<i>Pictus</i>	413	<i>" Cypellus</i>	482
<i>Pilicornis Carabus</i>	4671	<i>Rumigerata phalarum</i>	4932
<i>Pilosellus papilio</i>	465	<i>Rupta</i>	4792
<i>Pini Curculio</i>	529	<i>Ruricola Scarabaeus</i>	378
<i>Plavialis Musca</i>	372	<i>Sanguineus Elater</i>	508
<i>Pompiliiformis Larra</i>	420	<i>" Cerambyx</i>	553
<i>Profanana phalarum</i>	3773	<i>Sanguinolenta Lepthra</i>	557
<i>Pruni papilio</i>	437	<i>Scalaris Cerambyx</i>	393
<i>Pulexella Musca</i>	366	<i>Scotica Libellula</i>	523
<i>Punctata Apis</i>	3764	<i>Semi-punctatus Carabus</i>	3672
<i>Punctulatus Diptiscus</i>	540	<i>Septemnotata Coccinella</i>	3623
<i>Pyrastris Musca</i>	4011	<i>Sericea Musca</i>	4452
<i>Quadrata Vespa</i>	49522	<i>" Trithredo</i>	402
<i>Quadrifasciata Libellula</i>	425	<i>Sex-Cincta Vespa</i>	455
<i>Quadrifasciata</i>	407	<i>Sigma Noctua</i>	5621
<i>Quadrifasciata</i>	407	<i>Signata Apis</i>	4211
<i>Quadrifasciata phala</i>	4933	<i>Sinuata Silpha</i>	539
<i>Quadrifasciata</i>	463	<i>Sordidus Scarabaeus</i>	4042
<i>Quadrifasciata Musca</i>	4672	<i>" var</i>	4043
<i>4 Punctata Coccinella</i>	542	<i>Sphaecelatus</i>	4172
<i>5</i>	572	<i>Sphex</i>	3762
<i>4 Pustulatus Elater</i>	545	<i>Spirifera Sphex</i>	538
<i>Quercus papilio</i>	460	<i>Stagnata phalarum</i>	3632
<i>Quingueguttata Apis</i>	438	<i>Subocellana</i>	3801

<i>Subulatum Aerydium</i>	521
<i>Succinea Tenthredo</i>	4412
<i>Sulcirostris Curculio</i>	509
<i>Sutor Cerambyx</i>	4551
<i>Sycophanta Carabus</i>	4771
<i>Sylvaticus Scarabaeus</i>	474

<i>Tenax Musca</i>	574
<i>Tortaceata Phalaena</i>	4871
<i>Tredicimpunctata Coccinella</i>	3622
<i>13 Maculata</i> "	428
<i>Trisaccaria Phalaena</i>	370
<i>Triguttella</i> "	3821
<i>Trinaculana</i> "	3691
<i>Tripletella</i> "	3823
<i>Trinotata</i> "	499
<i>Tristrigaria</i> "	4612
<i>Typicoides</i> "	505

<i>Vacca Scarabaeus</i>	561
<i>V Albana Phalaena</i>	3711
<i>Variegatis Apis</i>	3992
<i>Vau Curculio</i>	4141
<i>Venator Cimex</i>	375
<i>Vernalis Scarabaeus</i>	5471
<i>Verticalis Pyralis</i>	536
<i>Vesicatoria Lytta</i>	534
<i>Vestalis Apis</i>	464
<i>Vibrans Musca</i>	467
<i>Viridis Tenthredo</i>	444

<i>Uliginosus Nemotelus</i>	5191
<i>11 punctata Coccinella</i>	5742
<i>24</i> " "	362.45
<i>Ursularia Phalaena</i>	447
<i>Zebu Phalaena</i>	3971

